IN-VIVO ENERGY DEPLETING STRATEGIES FOR KILLING DRUG-RESISTANT CANCER CELLS

ABSTRACT OF THE INVENTION

This invention also provides a method for treating a cancer subject comprising administering to the subject a combination of ATP-depleting agents at concentrations which deplete the ATP level to, or close to, at least 15% of normal in cancer cells wherein at least one of the ATP-depleting agents is a mitochondrial ATP-inhibitor, a methylthioadenosine phosphorylase inhibitor or an inhibitor of De Novo purine synthesis other than 6-Methylmercaptopurine riboside, wherein said composition produces a substantially better effect than a composition without at least one of the ATP-depleting agents: a mitochondrial ATP-inhibitor, a glycolytic inhibitor, a methylthioadenosine phosphorylase inhibitor and an inhibitor of De Novo purine synthesis other than 6-Methylmercaptopurine riboside.